Pocket Notebook
PN 25-00-00 (1925-1926)

This notebook dates from June 1925 - April 1926. The pocket notebook contains notes by Thomas A. Edison relating to experiments with rubber, limestone, Ford starter cells, chemicals, phonograph records, resin and record labels. There are also notes about urine tests. Filed separately are thirteen loose pages containing notes relating to experiments with chemicals, rubber, asphalt and mold blanks. The notebook was originally found in Thomas A. Edison's desk at Glenmont.

1925

3346

EDIS 223918

Census Taking
June 10

Sales Phonos + records

1923
532 883 } average per dealer
2327

1924
459 379 } 2126-

Boyds City Dispatch has following last

16938 Musical Instr, Musical Merchandise & Sales & Repairs in LD Price $.75
sales standing rate to Capital

They are divided into Trades

1815	Violin teachers	15
1883	Bands	4
3978	Theatres	25
16606	Moving Pic hous	50
364	Schools Military	5
323	Phono Mfrs	5
602	Piano & Organ Mfrs	5
563	Music Composers	5
484	" Publishers	5

15742 Cycles - Dry
Nye Dream June 12/25
Best - Reg proper
40 Blocks over vault
last total 49 blocks

Write Disc dealers who gave up Amberola + get list of owners we pay them 5% for 3 years. on all sales + encourage them

To catch sample system dealer who delay + spoil records Our Man goes to jobbers place take 1/2 do records to open Club

Devide a Club in 2 parts + get 2 returns instead of one as now—

This will spot 2 persons in a club, of 4— do this 2 or 3 times. But first note which clubs spoil or delay or both + only operate on the bad ones

Now you have it down to 2 in a 4 member Club if a 6 member

Club you have it down to
3 of 2. you can split
into into 3 boxes
Called the main —
when op attach route proper
letter and day method
they carry out instruction
You will be compelled to
Cut them off of club service

You should always have a
system to note progress
of Canvas by making
time of approval of
orders and reception
of Cases here you
have a method of
finding out who
delays

If you establish a system
with proper recorded checks
thoroughly teach [illegible] Man
man Dilery will be no
trouble, assume this man
is absolutely void of
resourcefulness then teach
him for this misunderstanding

Expents to get Canvassers
Try Situation wanted Salesmen
for Valley in Newspaper
Try farmers sons who play
Zone Missouri not who
likes Manual strong basis
for Country planting

1= Find out about Edison Appliance people -

2= Utley - Teachers put in phone in Schools next season give Leaders Common 5% on principal of Schools - if OK + gets prospects Dealer pays rent

3 Noon hour in factories 5% Com

4 Excursion boats, Comm to Stewards

5 Summer hotels meddle class where no mosquitoes

6 Church fairs, Boy scouts help Comm

7 YMCA K of Columbus

8 Country Clubs - Comm

9 Beauty parlors, Dressmakers, washing Machine parlors - Bootblack parlors

Rubber in A4 — 03

Manifold Valve	.05
1 Gas Separator Pendulum	1.088
1 " Key	1.088
Side rod Insulators 2	1.408
Side rod Insulators 2	.192
Pin insulators 56	1.96
Pole washers 2	.080
Pole insulators	.056
gland Cup red-P	.101
" " Black N	.101
Soft rubber gaskets	.160
	6.284 Ounces

2½ cells to lb

.380

4 bulbs on hold
Cells in tray

total

# of part	name of part	Part Number	Weight 1000 piece	Weight Each in oz
1	Mushroom Valve	814 H	31b 2 oz	.050
1	P Grid seperator	558 I-P	68 lbs	1.088
1	N " "	558 I N	68 lbs	1.088
2	Side sheet insulator	060-1	94 lbs	1.408
2	" rod insulator	573-H	6 lbs	.192
56	Pin insulator	057-1	2 lb 3 oz	1.96
2	Pole washer	007	2.5 lbs	.080
2	" Insulator	008	1.75 lbs	.056
1	Gland Cap black	011	6 lbs	.101
1	" " Red	080	6 lb 5 oz	.101
2	Stuffing box gasket	009	3 lbs	.160
			ounces	6.284
4	Tray bottoms	220-	9 lb 1 oz	.580
	Total Cost 1 A 4		.7612	
	Cost per lb		1.98	

Mushroom Valve	$ 8.21 lb
P grid seperator	2.33 "
N " "	2.33
Sheet Side insulator	1.35
Rod	5.66
Pin - Sheet uncut	.89
Pole	7.44
Pole Washer	4.80
Gland Cap N	4 57
" P red	5.99

Burns grid Heads
New 300 Calculop

June 16/25 1.9 Total Royalty from this sheet

300 sheet

Number faces 584. 16 are single
V " " subject Publisher royalty
157 - Royalty 2.80
129 sub to artist Royalty 8p
pay as 2 income Cards on one record

Amount Royalty = 129 faces $12.97
Number faces not subject to Royalty 316 -

Average royalty on 100 Records
.0166
Average on 150 011
Average = 200 .1314

Practically 158 Complete Records no royalty
142 royalty total 4 Cents
Principally Annual royalty. but few sold
~~of~~ Comparatively

Stain limestone with a colored acid one of colors that make a grade color with my Hanna lime -

Dissolve limestone + Narrow down lime by Ammonia Oxalate not / mg a little Magnesia Carried down Can dissolve lime in HCl + precip by NH4 + Ammonia Oxalate - / Try 25 -

Walsh Has following old lines Lucy Long
Jim along Josie
McCoderuby Johnson
Dolly Come up

Moore Theo says it takes 35 seconds for platters to come down in Blank & Printing press I thought it was much quicker! If we make a bigger Opening Can't we Cut time in two saving 17 seconds on each round + thus save Labor Expd - increasing output

---

Meadowcroft son got Wilkins this Dinath Banks of the Wabash The latter that never came The good old summer time

---

Moving Picture

Fox News

Mr Edison making his morning rounds to his experimental Laboratories

Scenario

Mr Edison goes out of front door into Galvanometer Room

Leaves Galvanometer Room and goes over to building #11.

Meadowcroft will come into building #11 and leave with T. A. E. pointing across the yard asking him to witness a test of throwing mail bags & containing records.

Witnesses the Test and then walks down to Chemical Room. Perhaps some of

our people may stop I.A.E. on the way, to ask questions.

I.A.E. stays in Chemical Room one minute & then comes out and goes up steps into machine shop.

Finis

---

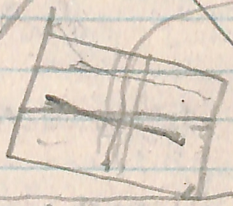
ask Payne if he used Gelatin on the single Rotodor Fr & single M Cells -

June 24/25

Stevenson marked 6 Reports from Clowdon Jobber, as from Orange No Excuse for the Mark they many Error #1

June 25/24

Payne by placing Cells at slight angle & filling slowly Electrolyte drill Ends & test Wheels dobraks before general level tracks upturned Edge



2f 3" high & takes 24 minutes it raised 1/8" above horizontal gives 1 minute to run in that would be plenty possibly fell in 10 minutes

Payne Can't you make 3 sheets tonight & 3 for iron & while 3 are wet press together & dry & Calender & test by light

Another idea Osmosis —
Make Each sheet of the 3 of Spots thinner than next say 2/3 thinner than stages. Then when 2nd sheet laid on the 1/3 will match a full thickness — so on this would give porous receptibles to hold solution + prevent P pole drying out by Osmosis —

Even of the 4 sheets every alternate sheet could have 1/16 hole punched in + staggered or not

Perhaps lot of 30/1000 holes in Ni sheet would be good

I think ferrous sulphate Solution boiling if dropped into 35 or 40 % NaOH at very highest temperature will make Only brown Try ferrous Oxide + Ox Okey Bartley

As fond Slater Cell loses on a small amount of weight when over charge compared to what should lose Theoretically occurs no doubt but there is some catalytic going on, Ther to regenerate the gases back to water

Put 3 Columns Canvassing
Straight dealer = prospect
Chaser — Subdealer, T
Member of organization

Shorthill-Beecher Neon NG
Can't be taught - probably, don't read
Reports

July 3/25 Meyer man

Gowdey - old		Fallon	
Gowdey	young	McCauley	
Tilsworth		Reed	
Clemo		Potter	
Kennedy		White	
Stapleton			

Chg 10 cents pkg New postage rate 1½ Times Increase.

Cost	Zone	1	2	3
2 lbs	One record	9	9	12
	Pkg charge	10	10	10
		19	19	22
average $1.14 Sold	Cost Record	69	69	69
		88	88	91
	Profit	26	26	23

Two Records 3 lbs

	1	2	3
	20.5	20.5	25
½ vs	10.25	10.25	12.5
69 Cost	69.00	69.00	69.0
	79.25	79.25	81.5
Profit	34 3/4	34 3/4	32 1/2

12" Record new rate

3 lb	Zone	1	2	3
		10.5	10.5	15
pkg		10.0	10.0	10
		20.5	20.5	25
Chg for record		75	75	75
		95.5	95.5	100

Chg 100 allaround

Group of Burns dealers having 5 to 10 Machines had average purchases in 1924 of $55 for year 4.6 records month. Uses 12" sample at Cost to dealer of $12. yearly Dealers ~~using~~ in 1 2 & 3rd Zone, increased postage Yearly profits $11.70

Another Group from 10 to 19 Machines purchasing $69 yearly or 100 Records or 5 3/4 records month under same Conditions Make a profit of $18.00 yearly

group from 20 to 56 Machines $165 yearly or 240 Records Make a profit of $60.00 yearly

Werner
Make test record
of your Z Cast
& Hargis with
his do same

I believe I have partially solved
the problem only LiOH is good
for Alkali storage battery
Say in A4. We must use
Enough soluable LiOH + some
in powder form as 90 grams
will not dissolve
I find it - Caustic as the K_2CO_3
Precipitates as Li_2Co
As cell gets older + gets
more Carbonated the LiOH
Automatically Caustics it
In food stores type Li_2CO_3
may deposit in the
asbestos + be bad

Chicago needs 17 Racks
to hold 8801 300 list
+ 4892 on 680 list.
Total 13693

Kansas needs 9 Racks
to hold 4001 of 300 list
and 2482 of 680 list
Total 6483 Record

Schmarka find out if
Hypochlorite really
discolors flour after sulphur
if It dont see if KBrO
alone or something else
BrS Carb work I think
penetrate + discolor also
free sulphur out

Benny It costs 9 cents an hour to keep a press idle for interest + depreciation + Idle

It costs 50 cents an hour to keep a man idle.

So you see Every effort should be made to keep the man busy never mind the cost of idle press.

Always sell your best goods using comparison You can always sell a higher priced good machine + make more profit.

You can not make a profit planting inferior plants when business is bad or even fair. planting plants creates a desire with your ones you have to plant so many to get one Sales makes it unprofitable ~~to sell~~ with good plants the desire is strong and 1 sale is made for far less number of plantings + thus gives a profit as Truck has to handle less + Salary + Truck Expenses are less per sale

Disposition of new men
4 days with Whalin –
4 " Reading Traveller reports
Then sent to Travellers to
finish Education stay two
or 3 weeks Then return to
Orange to be taught
Servicing + selling –

1 goes to Moffat
1 " Zeuner
1 " for Desc Inspector
1 " assist Burns
1 " " Anderson
Etc – But not yet
decided on these –

Want a woman for
Orange servicing
Soon as possible –

Run a wear test on
Aniline Violet Coated
Desc with that tiny
hole – use stronger
aniline until it blows
up It may be
We should try an Aniline
diamond in reg Desc
+ see if sides have to
anything to do with
the bad timbre

There may be something in
drying 24 hours all Varnished
blanks before baking –

July 11 1925 On hand

Sheraton	3544
Wm & Mary	1690
Jacobean	916
Hep	910
Total:	6860

July 11/25

Rayon defect is high absorption of Water = I wonder if very thin solution Condensite with plenty Paraphenylendiamin on Rayon bring soaked in sol then Excess removed by Centfuge & then heated 150° for to condense to insol stage Think Rayon would be waterproof Try it

Find out how many Black Label Records Girard has got.

Take up matter of getting flat blanket those that get dished after making + see how high Viscosity Can work

Girard Jobbers Victor Edison

Sales Retail

Victor + other makes	1920	$ 331,000
	1921	" 270,000
	1922	455,000
	1923	281,000
	1924	149000
Edison	1920	63.200
	1921	36000
	1922	44000
	1923	32000
	1924	16000

Radio retail sales
1924 49.000
Feby 1925 to June inclusive
89,000.

Wholesale sales from Feby 1925 to June 1925
90000 Compared to
40,000 phono sales

Girard Inventory June 1. 1925 # 18317 for Machines

White Label. $ 2880,-
Black " 139000 Records
Amberol 30000 "
Where is White Label stock

Dorn Export Servicing

107 owners serviced

Average Black p. owner 21.4
" White " 14.38
" Both 36-

1392 Black 948 White
of 107 Speed

Of 6 Best selling Tunes
sold to 107 owners
W.NY- 4 were late
songs 2 " Jazz

---

107 Born

48	Machines	80 Speed
1		98
3		94
6		92
11		90
9		88
12		82
42		80

107 owners

17 Had Radio
28 " Piano
27 " Piano or Radio
Phonograph Prospects ablaze
15 Piano prospects 3
Repairs Dance Changed 3

80 1st Records sold
29 1.50 "
8 2nd "
average 1.192

Best Sellers 4 Songs
" 2 Jazz

Sold 9- 51500 How do you do
" 5 51560 West of the Great Divide
" 4 51543 Swanee Butterfly Fox T
6 51506 All Alone
4 5551 Happy Wife Jazz
5 80829 June brot the Rose
4 80160 Kathleen Mavourneen

When Ferries comes with his Dealer, Jobber + Edison inventories, Comander of Exchange London, Canada, Baby + the others for new ones using same machines by transforming to new after growing up. Then changing legs + fix up like new ones

July 24/25

Sales Belting Wally 80801
released July 18/24 4243

80806 Moonlight Sonora
released Oct 10/24 3.179

Scheme Closer to
meet 1/2 price Victor
argument Carry Victor
Comparison records —
a notable reproduction
Illustrations where they come
up quote them as demonstrators

Get that Copy of Dom
terms of sale block from
Bolton + file + also
Record it in this book

Go over disc plant + find
where woman can be used
think some can be used in
Clancy dept. Have chatted
Moore about redesigning
a long table + using 1 man
+ 4 women for Finishing
Assembly

Why 19 men in Ambrola
get List + Consolidate
Dome — Also Cycles
taken in Halls dept,

See if Can make Machine
Screw + unscrew all screws
of a mould ring at
once,

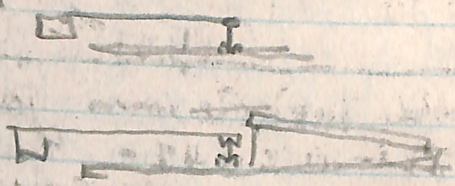
Has Rivetg gone

Keep at Teed to reduce
force —

How about lay off in Store room Disc -

Walk Wein Phono works Eye To reducing force

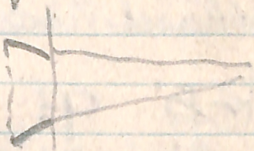
Werner attach Spring to Diaphm not rigid but by a



Condensite Diamphms must be got Absolutely flat all around Edges and the Rubber ring must be perfectly flat so no leak

Try funnel echo End open in Recdg room, also plugged with Cowhair - see if reduces it -

Plan a 4 feet flair to funnel



Put Swede Arrhenius man on finding rate Lithia plays in S.B.

1925

Monthly Tzzd Reports January 25
32.73 - 10.62 = 42 -
402876 Prints 339 000 Stock

Febry 36.89 - 10.25 - 47 Cents
318000 Prints 284 640 Stock

March 50.58 - 14.50 - 65 Cents
291 000 Prints 261 000 stock

April - 39.95 - 17.89 57.84
208632 - 193798 to stock

May - 62.23 - 20.42 82.65 Cents
128464 - 107 302 Stock

June 47.61 - 20.00 67.66 Cts
138264 prints 119 841 Stock

Weight Complete Cost
welldone Records

Hep	91
Sheridan	95
Lead Uprite	99

Out July 27 - about 6 800 daily -

If 1000 more was made

Extra Cost for Labor.	55.75	
Materials	69 07	
Steam, Water, Electricity	48 80	
Pkg + Boxing	173.62	
	8 45	
	182 07	

or 18.1 Cents Each

July 27/25

Percent ok final inspection of reclaimed Cell parts inspected at Orange

Can	78% OK
Can Cover	81 — "
Valve Spring	98
Valve Cover	98
P pole group	44
N " "	46
Iron Grid	99
3 Space washers	99
Connecting rod nut	100
Split Washer	66
Gland ring	100
Connector	100

Rubber Parts

Pos grid seperator	97
Neg "	97
Side sheet Insulator	74
Side rod	93
Pin insulators	100

New 20 group CM plan

Large Ford Closed body truck
Cost $650.
Depreciation over period of 5 years
when dead. $2.50 week
Repairs weekly 1.50 "
Interest 6% 5 years 75 cents week
Salesman $30 weekly
Helper $25 "
Rent 6 demonstrators 75 cents
per week each $4.50 week
Trucks makes 30 miles daily
2½ gals gasoline at 25 cents
gallon 62 cents daily $3.75 week
Tires + inner tubes $2.75 "
Oil 50 cents week
Insurance 25 cents week
20 Sub dealers $20 weekly
6 sets demonstrating records
25 cents each per week $1.50

$93 per week.
Machines sold average 150.00 Each

1 Machine sold week loss $33 week
2 Machine Sold " profit $27 "
3 Machines Sold " $87 "
4 Machine Sold " $147 "

From these profits sub dealer
receives 5% from list or $7.50
per machine

Then 1 Machine sold Loss 40.50 week
2 " Profit 12 "
3 " profit 65 "
4 " profit 117 "

12 records sold for each
machine during year
profit on each machine
sold: $5.40
Minus 5% to Sub 68 cents
Profit $4.72

adding record profit
1 Machine loss $35.75
2 " Profit $21.44
3 79.16
4 $135.88

Figure out 1 Truck 20 more and dealers and 2 Salesmen in City work —

End 21 months

12=2 Coat Vars 2 Bad 10 Very Bad
12=3 " 10 Bad 2 "
12=4 " 8 fair 2 Bad
12=5 " 2 good 6 fair 4 fair
10=6 2 Very G 6 good 2 fair to G
6=7 1 Very G 3 good 2 fair to G
6=8 1 Good 1 fair to G 3 Bad

July 28/24

Viley men

J B Gourley	Orange	Orange Tex
E A Gourley	Orange	in Pa
Porter	Viley	So Carolina
Clemo	Viley	Wis
Kennedy	Orange	Ill
Fallon	Viley	Texas
Stanley	Viley	Kansas
Wholo	——	Ky
Reid	Orange	Indiana
McCaskey	Orange	Orange
Tipton		Office Orange
Hay		

E Orange Shares

Mina	13926
Chas	2.670
Theo	1 670
Myself	11 734
	30000

Cause of records going bad surface may not be water but too thin Varnish

Try 20- Reg pressure
20 1200 lbs Hydraulic
20 1500 " "

Try Reg pressure to Blinns for a test -

---

ditto 20 Vis 6
20 Vis 8
20 Vis 20 by Para
present reg pressure
Blinns to test

Am afraid Selenium interferes with Contacts
Try Hypochlorite Na to oxidize it Try Copper Mercuric Selenium film Etc Nitric acid dissolve off the Selenium before use in Battery

See if solution gives a test for Selenium

See if Cathode forms Selenuretted Hydrogen with thick Copper black film if so try N/1 Nitric at least water

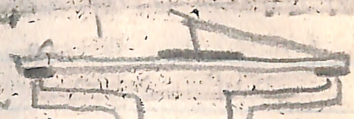
Get Cork people to mould some Cork sheet .015 to .020 thick for diaphragms.

Have try pressed Cork dia Cut from sheet like Cork gaskets we use in Reproducers. Cut Balsa wood diaphms -

Try some Shellac dia shellac loaded with Naphthalene or Naphtelra Chloride crystals) or Di Nitro Benzol + Chlorine Stone to right thickness

OVER

possibly want Ni ramp on
maide + Chuter



old 40' to 50' span

find out what
Records Down 9
Balan are going
prospects - place

July 25 1925 inventory of
E Lincoln Uprights, Condolle

Sheanlons 3536
Wm + Mary up 1690
5226

Think we can use all of these
for Rub-D

Consoles July 25 1925

Adam	8
Baby	1212
Chip	96
Italian	25
Wm + M	198
London	474
	2013

Total Uprights 8695
Suitable Sheraton +
Lower M - 5226
3469

Idea for stereoscope moving + color photos, Light scene illuminated in front then arrang for extra lighting beam at angle of say 45°
The idea being that its impracticable to for using a special apparatus for people to hold or accomplish the essence results by 2 beams of light in photographing like the letters on the Front Cover of the Stereo Mechanical Equipment
light beam

Suggested Paper leave Charged Cells stand 8 12 & 24 hours then dissolve
Also thicker asbestos

Aug 5/ 1925

Also perforated asbestos

Thick parfd asbestos

Thin Continuous Asbestos no perforations

Have daily test of 6 Records Varnished thick, 1st Coat put under closed Tin Cover to prevent Evaporation + let it soak in several hours
Put Hart at it.

Aug 7/25

See if there is a double Sulphate of Fe + Mg of 20 grains + reduce in Hydrogen 450 for 72 hr Food Cell Plates so it will not shrink.
H_2O Can be added afterwards

Sulfate Fe + some Sulfate Cobalt also - or Fe Mg + Co sulfate used

---

See in small way Fe reduced by H Cooled in Hydrogen + then let in Tetrachl Carbon - also, gasolene - Alcohol Glycerine, Benzene sol so not pyrophoric on heating - Lab.

Magnesio Ferrous Sulphate
$Fe''Na_2(SO_4)_2\ 4H_2O$
Crystalizes from Solution of Component Salts in large octagon Crystals.

good made

Sodio Ferrous Sulphate
Evaporated at 55° Cent is permanent in the air Crystals stable at 125°C but if recrystallized + Crystals and Lamp Salts Crystalize seperately

Zander to cure

30 min 35 40 +

60 Minutes to continue all the Sulphur possibly to use higher temp if these long periods in the press is necessary as high temp will reduce time

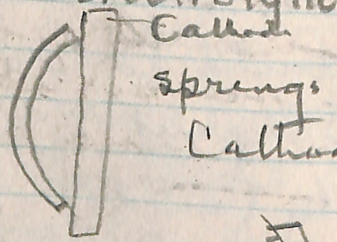
Aug 10/25

Make some Jap Linen paper dia with Menimum of Shellac & also Condensite so it will stretch some what unlike glass

---

Try Ni Ford Horn 0018. Used on Dec Reproducer with stiff Center. ditto plated Chromium Diaphrm

If Ni Electrolytic stream + Cathode



Then it will spring flat & make good diaphragm works fine .001 st

If it could be got flat by a bent cathode, could make Cobalt sheet flat which is still more elastic & also Iron or rather steel by having Carbon Compound in the bath - if do this .001 or .0008 may be OK

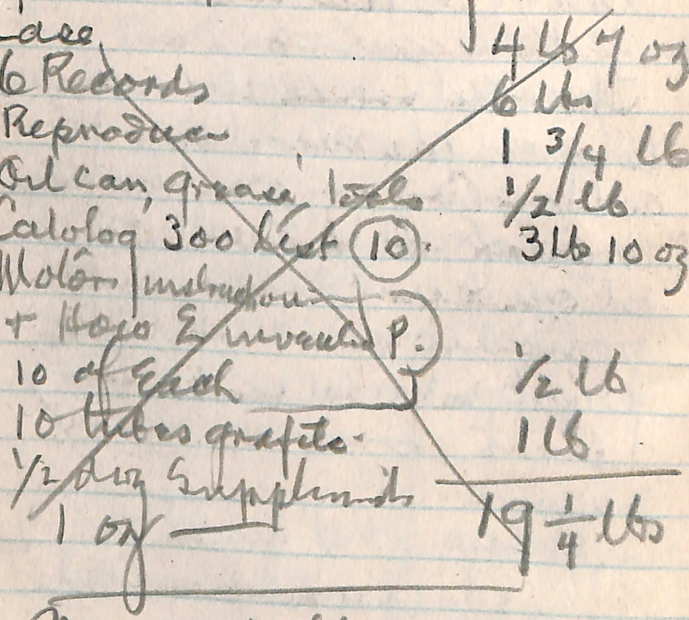
The extra spring used to give elasticity should have a loose hair on top of it to stop buzzing up periodic waves like prongs in Music box

---

Have pad front of phono & closed lid when recording by funnel

Armstrong Cork Co
50 Church St New City
pressed cork sheets
1/32 is used in Regular

Weights of servicing boxes



Now 11 lb 10 oz
Suit Case 1 50
Comet

Aug 14/25

In Ford starter beat to use
Black No Off3 Made by
precipg Nr sulfate with NaOH
+ Hypochlorite Soda + work in
Regular way it adds 18% of
Oxygen, There we get rid of
this Expansion in forming
Cell + prevent disturbing
Mechanical Contacts
The only trouble will be
due to the Endothermic
absorbtion of Oxygen by
force of the Current + this
is small - Hypochlorite
Acts on Green Ni(OH)2 blackens
it but can be made to
absorb more than 63% ?
of Ox cant understand this
. The forming runs will
be less + large Current
+ time will be saved

NG no improvement

V. Imp Men to come
to Orungo to be taught

JB Gowdey
EE Gowdey
Kennedy
Reid
Chisholm
Haye.

He Keeps Porter
Tilsworth
Fallon
Clamo
Stanley.

Old Tune "Gaany Owen"
Tilsworth

Aug 15/24

Personnel NY Recording Lab.

WF Miller		$192.30
Gronkite		95.00
F Rothman Mechanic (Contracted)		65.00
HW Emmons Foreman	"	95.00
J Locasche (Recording)	"	65.00
Gettcliffe Librarian, Phone Messenger		35.00
Rabenstein Cashier, Typist, Regularly		55
Voorhis, Contracted Laborer to factory, Recording work		65
Webel "		65
WEEK		$732.00

Rent 5500 year
or 458.33 month
Lease runs till Jany 31 1927

Get original Copy of Dorn
Instalment payments &
also Copy of Contract
used by Bolan

100 CC Columns stiff from Colloid Mill wheat was cloud Shook it up again

July 11th 10 am
12 1/4 inch clear at bot
16 1" " " "
21 1 3/4 " "
27 2 1/2 " "
28 2 3/4 " "
Aug 7 3 1/2 "
20 Clear

But we all Cases 95% clear in 2 days or less.

Centrifugal throw on Earth at Equator 1/300th of its weight 1 gram on Surface 3 1/3 milgms

On at Wheel 10 ft radius going same velocity surface of Earth 66000 Times it weight Wheels 126 = 2 Million

We have been getting 190 2 Coat blanks per gal of Varnish Lately & ordered more Varnish used Now 21 Aug/26 getting only 179

On Experiments with Automatic + 2 Nozzles, 0.35 we get one Coat 14.3 grams on one side appears thick & is/OK apparently printed 10. 1/2 OK 1/2 pp at Edge - all Rough Experts

.2 nozzles 35/1000 each
gives 14.3 grams varnish
makes good record varnish
blank, one coat. Can put upside ok
dries ok - or 28.6 one coat both sides
Old 2 Coat 190 blanks per
gal - last few days put more
on by brush & got 179
Blanish blanks per gal
2 Coats, we could make a
1 Coat blank from this
9.46 on side

Old	190	18.94 grams	2 Coat
New	179	20.11	2 Coat
Auto	125	28.60	1 Coat

+ this be equal to 3 Coats
old way.

Work up plan to
Reinstate if man has
paid 2 or 3 installments

Take up having bank
send out Collecting notices
paying Total $3.28 1% $1.64, $1.64
or perhaps 2% or 1½%. Cost to
bank 25 cents postage, + 5c
envelopes - 30 cents year
Labor & profit - Where
dealer has no capital -
this probably lead to
bank credits - We can
give 41 or 42% off list

Gifts made CE July 10 1924
TE " 25 "
MES " 24 "

Possibly Bones plan may work
for salesman Salary 25 @ 30
week - 1st Machine nothing - 2nd
Mach $1 - 3rd Mach $1 2 + 1
4th 3 2+1 5th mach 4-3-2-1
10 dollars 1-2-3-4 accumulative

Where Barber has 2 places seperate rooms Beauty parlor, possibly put 2 Machines in

aug 25 1925.

Dealers having sub-d—
640 Dealers quit on
with 2576 Sub-d Average 4 per Dealer
505 Dealers are now
operating having 1944
Sub-d— Average 3.85 per dealer

135 have withdrawn
with 632 sub-d They
never should have been
put on + fault of ours
mine-

Thus 21% Cut off-
average 4.6 per dealer

Some scheme if practicable
whereby Dealer can exchange
old Dance tunes for owners
old dance tune for 25 cents
What would these tunes be
being stuck on + after
Exchange he is in same
position but with 25 cent
profit, he stands to lose
a new sale at 100
but not more than 33%
if so 66% gain at 25c
150 but if loses 33
gain $1320 - Rather
doubtful profit in frequent
out - Probably
Make owners danger
buyers of dated
Dance Records

Sept 1/25

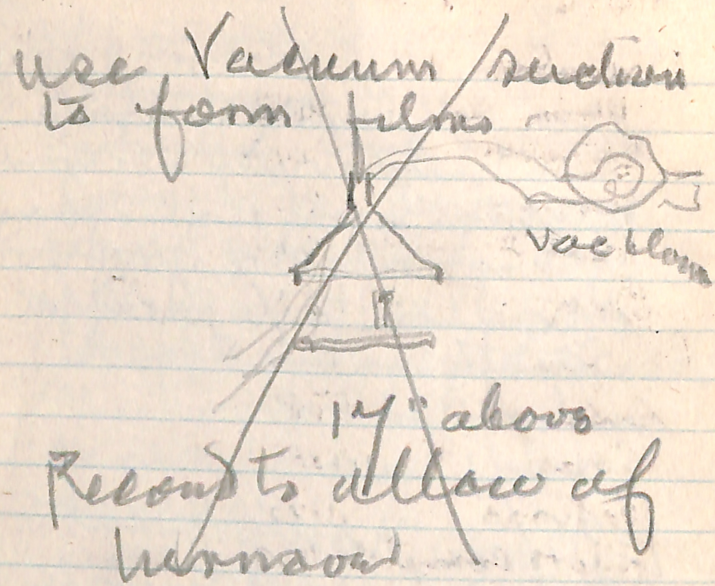
Take up with Dakota S Lake
Alteration in legs etc
Reverend Chip & Wood
Consoles etc Get average
freight from Chicago & return
packing Case, Cabinet etc
Shipping / back to dealer
This is one way to save
dealer loss on these
models

Schedule of Mfg at
N London No 1 2 3 4

No 1 50 a week
2 100 "
3 50
4 10

Consider 450 attachment shift
also Self winder if it fails
Can hand wind — this would
help single spring Machine play
450 — also a governor
to slow to 1/2 Speed for
Thirty minute Record
both Tudes —

2-35/1000 Nozzle present
Speeds up the Sept
gives 15.6 grms Varnish
40/1000 18.6 grms
with air can turn
over OK easy
Spread of table 12th
too high throws
slightly Drill



Material Cost Jar standard Cell

Battery box

Wood C	.080	
Handles	002	
Screws	004	
Heat Insulatn	080	
Support Cover	.225	.391

Cell cans C

Sides	.088	
Tops	.025	
Bottoms	.025	
Fillers complete	059	
Spacing Sleeves	0096	
Gasket	.010	
Support nut	0115	.228

Cell Elements

Ni(OH)2	2.827 lb 50 c	1.413
Fe O	2.570 " 50 c	1.285
Separators	1.434 lb 25 c	.358
Ni plates	1.743 " 40 c	.697
Electrolyte		.365
Poles		.209
Nuts		.156
Clamp plates		.312

Cell Connectors .180
Terminal parts .123
Hard Rubber Cell parts .450

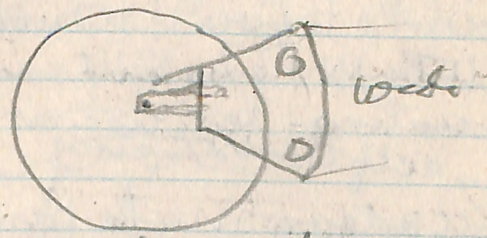
Total of all parts 5.763
Sept 4 1925

Dabbey to Cook 105
+ pour out 10 min sample
20 30 + so on up to
2 hours – 2 Lbs to
distill off up to 350°
or higher – keep
stable point + Dist Wtr.

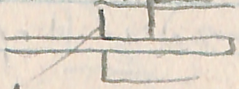
Werner What is the weight
of the Recorder Supported by
the Saphire ball –
Also How rigid is the clamp
for the tension Spring

Also ball level should be
of Hamilton sliding weight

Think this should be



+ Very rigid – at Edge
where clamped should be
sharp



Sharp

Vary Chamfer
See Moore get Copper
Master no! music +
plate or Nickel + Sharp
for diaphrm

Lbs Rigid plate
Cobalt diaphragm
Square plate 5" wide
6 inches long – Stiff 72

Sept 7/25

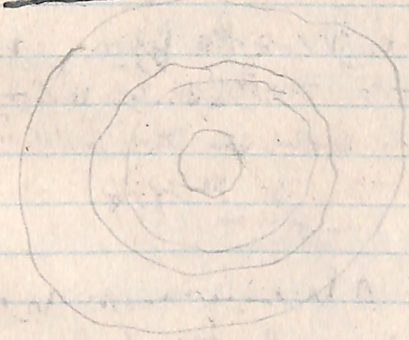
Experiment on a Condensite Varnish with Paraphenylenediamine as feed the ingredient which causes Para Pd to fuse it to rubber, state ½ hour or less after painting - for use as a varnish self Curing

Zanders make pens Employ only pure rubber to see if leads are same as each Recovered & Applied

Vitex shows me his system of Recording Rent periods

Also when Record keepers are changed Recm

To get free of hydrogen strains in Diaphragms for recording plate them out of Electrolyte say Nickel Co 7c etc also can plate to shape

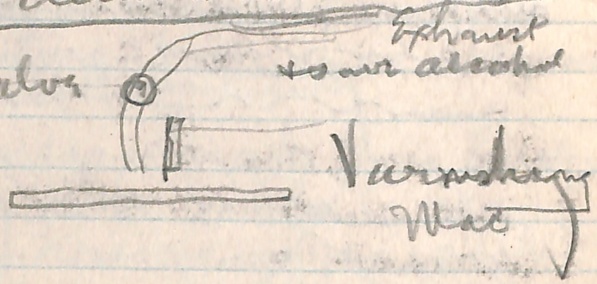


to stiffen Centers, Use Copper Mould + Selenium wash as in desk - Stamp -

In Steel Card Index put on 10/25 Inventory when finished

Also Sales Mac + records probably have to add 4@6" to length

Buchmann or Ted Long Exhaust
14 - blanks pressed at start
Very slow down after Coolant
15 seconds to get to pressure
to Eliminate air —



Arrange enough of Burns
dealer cards and not on Club
but buy fair amount of
Records to manufacture
the 8 Sample 12" discs
when all checked up
Make Dept Samples &
send them to say 25 —
with proper label -
for Label now a
Get names —

Push the 450 deck & get
Supply Recorders Knife
+ Reproducer Cards &
Reproducers
also attachments
Rush for Oct 1st

Get 100 attachments
for speed + to change here
on machine -

Have all the boys go out
3 days each with the Powder
putting in Barber shops

Get from Burns the
information I want from
Dorn

Make up Reports & forms
want from Dorn &
Balan Peloubet

See Richards about warp

Put up all the leads =
also less strain on spring
change spring so it
takes strain off when
up by going to Cutler
+ also angle higher
vertically

perpendicular

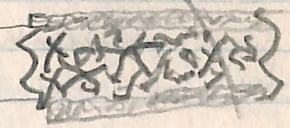
Hand out a doz for
12" Records right away

See Schmidt on
Rubber tests latest

See Burns about
Albany jobbers
dealers

Fix up for Metal
Mfg + Medoff -

Speak to Payne about
lessening hot pressure
now holes would be in
Letter very Coarse fabric
with thin sheets on each side
beat fine



Daily
For Duplicating Mats blanks
without fibre add Chalk,
$MgCO_3$ or other fine material
+ 5 Coats. Plaster Paris -

Dope a female Mi faced
+ see how surface sounds
also try with 1/3rd less
weight + also Light Wax
Records from

Werner = Chromium steel used on new Recorder

Must have it glass hard + finest grade Try alloy steels or Thompsons Quartz

Fred Ott makes some gap tapes with thick dep so 1 or 2 papers after pumping + Condensing be .002 .0025 .003 .0035 .004 .005

We should Expant on Condensate Resin using Catalysts Either KOH or HCl as the Resins are different, We dont use anything now also Expant with reflux tube, no pressure to make Resin The Suicide or our present mean

Next job for researcher on W_2O_3 hydrox when he finishes

New scheme for Colloid Lithia ore filtering

Put on a suction filter - over it put Kerosene. The water is reduced from 85% to 28% loss with heat is only 1/2% - Kerosene used again This seems good

Article by Homolka Chem Ztg 49. 391-2 1925

Try it with $Na(OH)_2$ on water filter, or Vac pump - Try Clay Bentonite etc -

Get Blumes rating from Dallas 2nd last BS. Test records

Sept 7/23

Payne - Use coarse asbestos but instead of beating fine & breaking into short lengths & seperating fibres Use a fine Chopper like a Hay Cutter to get short lengths if necessary but not to split up into seperate fibres. This coarse asbestos paper producing an open porous structure like big & small loops in certain - Could be made into coarse paper & then run through chopping Machine or Carded like Cotton -

002 Madeley Kapitzova

Dry 1.8/1000 Electrolytic Nickel 7g or Co Enough in Reproducer of Disc

To get Nickel deaphy straight Use Curved Cathode so natural tendency to Curl is Compensated for -

Take up Disc on Cylinder See if Cant use Beeswax & lighter Reproducer so Ball dont smear also larger radius ball to get more surface

+ dimmish pressure.

also very lightly graphite surface so just darkens a shade + get rid of all extra graphite —

Hart get two rejected female (Metallic) clean + dope. Then make a worn test. 1/2 inch inside near middle so + can detect defect. Note when it should be cleaned.

Try one first — to ask gaer to worry to keep with. On the other want to use heaver Reproducer

Payne left bottle Electrolyte from coll 5000 turns now probably 5% Carbonate. Try it with 5% Oxalic (Schmucker) to make it all Caustic

Hart to try on wear test on a metallic female

Try expmt of determining the dir that blows off Chips in recording to find if it makes diff

In addition to plating .001 diaphragms plate a center

.001 thick slight arch to get right stiffness

Ask Travellers to ask Comtn dealers do they have mailing list of Thrift Talkers Etc. If so get them to give them a good lip

Try Reprint records by
using 4 Coat Var on them
+ Reprint technique
When we get making 4
Coat prints

See Buchanan / get him
not to increase pay rolls
in Pkg Dept 2 to until all
are working to keep up
with unexpected orders —

Make Reorder Req
with 001 002
003 004 Nickel
Diaphragms —
Stiffened Centers

1 5/8 diameter
is size wanted
for Nickel diaphragms
Benny Mkg a Cutter

Andersons Assistant is
Sara in office Maron

Get good man who could
act as understudy of
Anderson get ready.
This will be Whiting

Engineering Committee
still passes records

Have Hart continue
with Cobalt Expmt.

Walsh

Cant we rent a Lauder player piano - Less

Aeolian Co offers

Music rolls 88 key

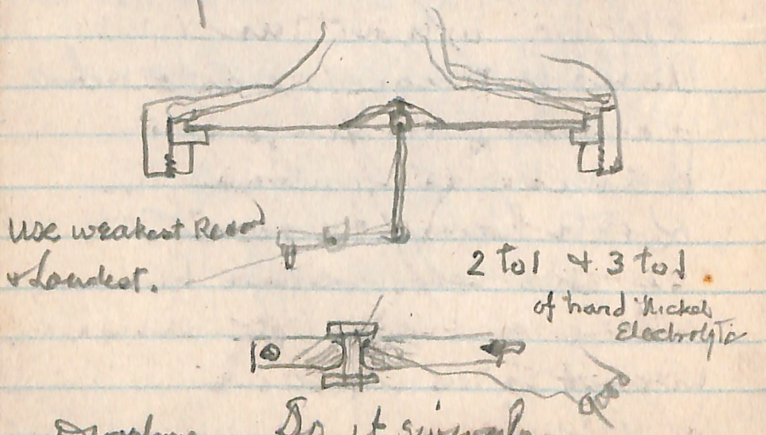
15 Cents Classic

Semi classic etc

Wanna make 2 new Reproducers like the old OK light Reproducer for wax reproducers to have 3 models

Make a Regular Loud Reproducer

2 Copies



+ up to date .001 or .002 or Condensite Paper

Get a Radio man = Experiment on Hitching Radio set of ours with our phono to amplify our records for dancing - Athenaeum

Hart try a reproducer Light that is used on wax record on a Nickel jamerle - also instead of Regular Reproducer use a 2 oz weight + lighter diaphram - so stop chatter marks -

Walsh what must be done to Music so an owner daughter who sings from notes can sing tone test work + have it sound OK - so she can learn to interpret from best singers Want to tie up with publishers

Walsh-Ferrum What is limit of weight of supplements mailed at present prices?

May Consider Enlarging

Find out Cost of Bonding Salesmen for dealers from biggest Co in city We recommending to all dealers they bond their Salesmen

To get 50% more on a record use instead of two discs moving finish Use Reg Machine & govern by a Cam worked by worm & regulate speed all way cross grove same circumferential surface speed

Thus with 450 thread gives a 1/2 speed of needle 135 mm for 12" record for phone book publishing Sparings to be worked Continuously by Electric Motor

All this can be put on Reg Machine by attachments

Can use this idea on Varnishing Machine

New London daily Courier

Sept 25 Light Co

#1	85	
2	50	5 days
3	25	work
4	10	

170 daily — 850 week 3400 month

Sept 24/25

Williams says present rate mfg 1200 Consales is #1 85 per cent
2 50 "
3 25 "
4 10 "

Estimates following inventory of no

Sales.	No 1-	No 2	#3	#4
Sept 1st	320	1190	450	90
Oct 1	460	1690	650	130
Nov 1	710	2190	900	180
Dec 1	1090	2415	1012	225
Jany 1	1475	2640	1125	270
Feby 1	1815	2840	1225	310
March 1	2155	3040	1325	350
April 1	2495	3240	1425	390
May 1	2835	3440	1525	430
June 1	3260	3690	1650	480

Total 20

New varnishing
old output 190 @
Two Coat on a side per gallon Varnish

Total
205
2050
2930
3980
4744
5510
6190
6870
7550
8230
9080

New 2 Coat 133 per gallon

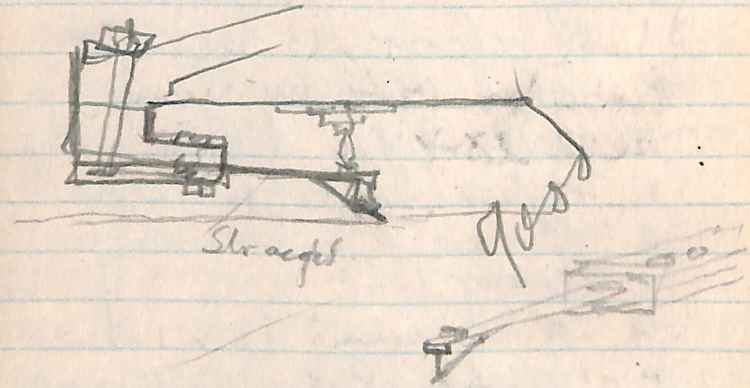
Labor 2 laught girls 5 days Teaching average 152 blanks hour one Coat - old way 209.

Trained girls 2 girls make 1200 2 Coat Thicker V per day

girls being Trained about 700 day

Oct 1 /23

12 Vics 2 40/1000 holes
Speed across 16
Seconds — 16·93 gross
Varnish —



It will pay us to have in
Each large College a Chip
upright or No 4 Console
for use of Prof of Music
for advertising Whitings
letter Shows this — 2

Try Button Loud Light Wt
Repeater We use on wax
Buy on Regular record
Fox Trot Moonlight Sonata

7 Mate. Average sales of
Victor 85. and Edison
$160, if sell 2000
Edison or 12½ he must
sell 23½ Vic
With more risk.
Collection & service
23½ against 12½ more
reliable Edisons

Of selling by demonstration
The fends as he sells
2 Sales of E to 1 of
Vic his advertisment
will be less by Keeping
less Victors hence more
turnover

9 - Keep clock Vic below 100 - Except Demonstrator

10 - The pull to keep Ε is strongest reproduces now hear, repairing best proved by 95% of all Columbia Edison Dealers select Ε for their own home

11 One of the worst fallacy is that people demand Victrola when they never heard Ε they want a phonograph Etc Thousands hear and to Edison "We never own a Victrola"

12 Another fallacy is that the Victor have all the great Artist only 2% of people want them as proved by present Cut in Victor R&D Equal to the predominantly innocent of money they are willing "great Artist" second What never did realize Can't be sold now after a certain public hear them they never will buy a 2nd dose "This Great Artist" slogan was never more than an advertising fake to benefit themselves up + now most of them dealer are paying for them by huge inventories

13. Victor has always boasted of their Enormous Catalog
Why do they discredit it - do. they now claim they are all imperfect
What says Electric Recording is the thing hence they start off with no Catalog
~~Eliminated~~ ~~Unlimited~~
~~for~~

See if Can Invent the bearings of Repeat arm to use 2 diamond + shift by device on weight from Reg to 45 min disc

Oct 8/24

Present Cost of Blank. Materials
.02614
new blank BS no alcohol
.02038

Labor present .00428
BS no alcohol .00207

Repairs Now .002 approx per blank -
Repairs BS. .00067

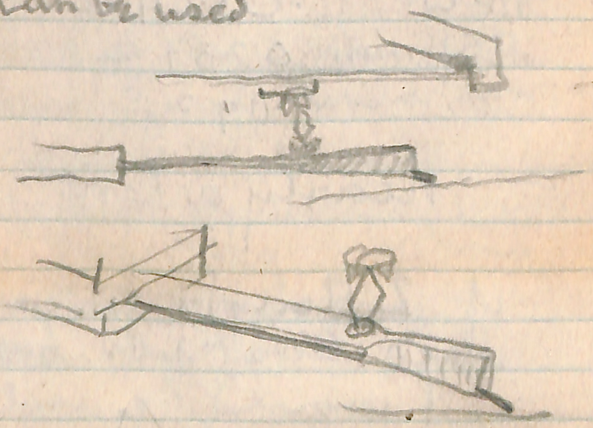
Grand Total
Now- .03242
BS process .02312
.0930

Nearly a Cent

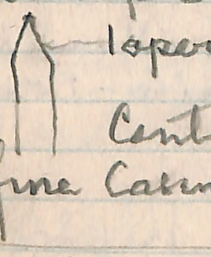
If 2 Single face 70 XT used Cost for ~~blank~~
1 would be only
1.38 Eighth Cents as against 3.2 at present

We should change name of Records from 10" 12" to 4 min 7 minutes 45 minute that be ended a handicap:

It is probable that on our new Springs Condensite records of Oct 1925 we can get leverage and increase leverage so smaller horns can be used



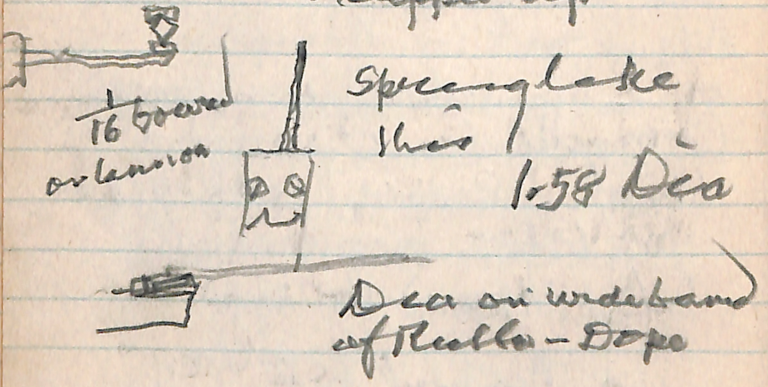
Super
Single or double face - Motor driven no sound drives a Spring
Heavier Governor
Magazine holding 2 records or 4 single or 4 double face use double face if turn over is not too Complex
or 2 types at different times
Commutator cleaning brush - Record knock 1/16 or 1/32 before music starts



New Reed. Use if possible quartz Reed, if not use steel
Use metal the Magnum for stiff Cups and Magnum Nickle or Maple for Connector
possibly double width to Spring + only 1/32 Connector gives same pressure

Rent my WE Microfone over
reject it fixed up
It frick awful when I make
it sensitive enough —

No 20 used wide of Victor Leaf
603 — 6 — 10 stepped up



Every Exchange Ripple
Costs us 98 cent bid
I have stopped Replating
+ that will reduce cost

These Costs are too high
Replacing too high —
see Johnson

Cost of 100 10" double
face records
20 cents Labor + Material
of 200 single face 29 Cents
for the paper
or 9 cents extra —

Viteys clock records
Blanks to pick at
random oldest
if possible ~~after~~
pick 50 each
week & grade
them —

Lighter layer of Reg Ripple
all together Too heavy + Ends
stronger at Core

Give Werner a Microscope

To repair old diamond & fix up a Diamond pregnadar
Cost -98 cents, Johnson
say they also charge on
diamond work 10 cents
on cost. This makes
it 98/ cents - they replace
the which will need
be dropped Hers
should also 15 cents
they should reduce
to 63 cents

10" 2.687 longest
12 3.68/7 - Spaces

Multiply 3 to 1

3-861-
4-1148

5-13435

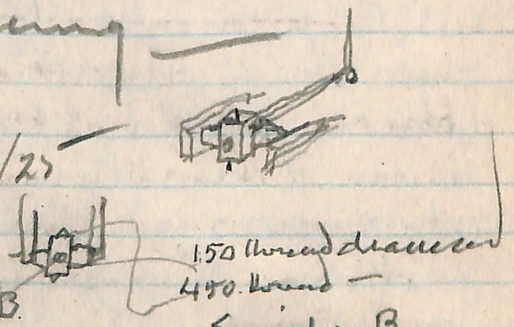
35 - Mixes - do 3200 blanks a day 12 hour on first start Daily says 3600 can be done easy. now 4100 in 12 hours 2 or 3 more is ordered we can make 16000 in one shift + one crew which would be cheaper than 2 shifts - also gives us chance to put on 2 shifts + guess all we will ever need

4 of worked 2 shifts
gave ~~$8000~~
2 shifts $2000 blanks
order 3 more

Theodore = Condensite Varnish
filled with Diamond dust
& Condensed for grinding & polishing

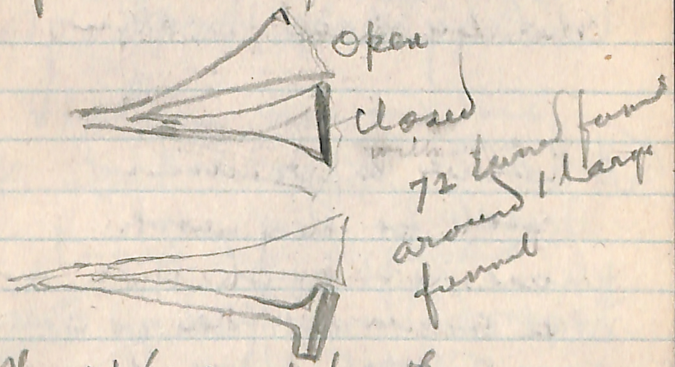
BS 12 to 18 hours
Cooked so just dent
with finger nail - Send
a Saleout Use last
of female Medallion for
Dupeing

Oct 27/25



Oct 27/25

Try a duplex horn. The mouth
of one is closed & this acts as a
sounding board. The other is
open - The closed one
acts as a sounding board to
return the wave so it coincides
with a new wave & this
reinforces the regular wave



Should be exact length

Weight on disc reproducer should
be made entirely of ~~hard~~ soft
lead to prevent fulcrum from
moving by brass elasticity
with loss of amplitude &
Sound Energy

Make a record Red Moon in Condensite
phone 25ft back-
Track very light- then deeper, then
deeper until deep as can to
bridge walls, Always start at
beginning. This is to find
out how much volume
lost by deep tracking

Another Experiment
Track for Reg work
phone 25ft back- then in
next room as far as open
door Open. Use this
as black to test reproduction
for Volume.

Dance Reproducer use 010 to 020
wire, on account of length
& different positions of weight
must make medallic wire
in 2 or 3 links. Nov 4/25
good patent

Nov 6
Notes test at studio 25

4 Violins two way
OK but think I could
be dropped a wee
bit. When Cornet
plays with them
on Melody OK
but when Trombone
joins in plays
Harmony its very
Bad multiplying
this is of course long
with Swanee River

If Cornet joins in on the Harmony its fair but not so sweet as Violins alone but passable—

Took only Violins put one much higher but in right places too work must have the Octave higher of 4th V taken by flutes & piccolo

Trombones arranged like 4 Violins Quadruple stopping are perfect Violins nearly so

Violins + Clarinets together Quadruple stopping no

Clarinets 3 Reg triple stopping + 1 Reg high is only fair but if two one not used well now take 4th one + put it in same position but Octave higher its no high 3 Cum to slowing + drowns out Violins

Trombone & Cornet
in 3rds fine —

Tried Cornet & Trombo
& 2 Clarionettes
1 2 3 4 — Quadruple
sloping play
Works OK —

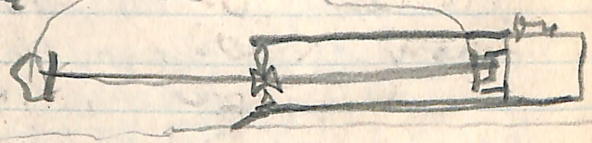
Note in playing Moonlight
Sonata, with its very long
bass notes that it slipped
not on first part of note
but after a second or
say 1 seconds. Putting
more weight & floating
weight stops it.
Evidently something
in tone of repeated
Replicas starts the
floating weight vibrating
This could be stopped
by putting a loose weight
(coated plasticine with
thin rope rubber cords
would dampen so
periodic waves wouldn't
build up the amplitudes
perhaps a cup with
Lead shot would do

New Loud Rec like
Sonya for test wear

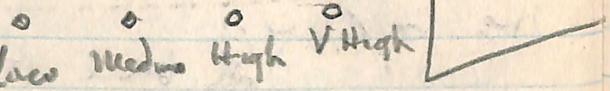
Clapbands — Here
comes Charles

Dec 8/24

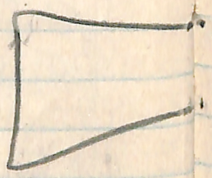
It looks as if Spring + Knife Edge must be on Cable side of Dropline to get a true wave



A positions Vights -
good



Poor way vs. B



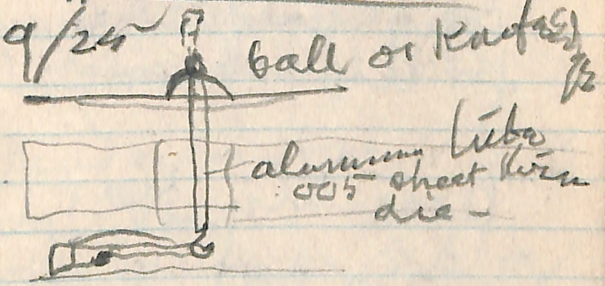
or many way not so good and A- | Kohlrabi more room Volume

Draftsman Employer

Bonus Christmas

Van Mac	350	175
Blank	500	250
Te Pocket	100	350
Sandy	200	150
	$1150	925
	925	pair
	$2075 -	

Dec 9/24



Tube moves Knife Edge outlard on Dropline as weight drops in

Since it seems impossible to sell an Edison to a Victor owner Our best bet is to sell attachments + improvements + fix up their Victor to get Record trade of needle Machines

Make test - Changing them as equivalent to a plant of an Edison charging so much for Attachment

Possibly No 1 (cord) + 2nd Blast Records

The particular Sample I had was too thick or thin a worn record where shine only is worn off has enormously increased friction (no doped Stevin) One Spring needle will not oil fully wound play fully one record With Stevin plays 2 Records Each with 4½ oz heavy sapphire

Dec 15/27

Reg weight alone 3 oz
" " hung 3.75 oz

No 2 Lead side alone 8¼ oz
Hung 4½.
Counter Spring on 3½ oz

Reg brass weight alone 13 oz

for 40 min 12"

Music all kinds longer
no sympathy — Classics
from earliest to Copyright
Songs already in
Cat / New Music / from
magazines pamphlets
Fancy + Band time classes
sheets

Schall / Reichardt
Experiment
on making + Vdemonstrate
Each piece of a Cabinet
varnished seperately
then assembled
so no finishing
afterwards

In loud repdr put in a 007
sheet Aluminum not Buckled
This is as loud any Regular
Condite diaphm and seems
Clearer + sharper details,
But under continuous Stress
of counter spring it may dish
will try plate beome flat
Nickel on disc mandrel
004-

Write Breton + tells
about Music + Gables
not done anything
Compare + Lewis
Servicing Xls

Write to

American Magnesium Corporation

Electron Metals Corporation

Send for Catalog

We are interested in sheet metal .004 to any thickness flat - get samples

Paulsen + Kansas City should send out a Circular that they now will keep a full stock of Standard Records, in the 300 + 600 list + can deliver by parcel post within 24 to 48 hours

+ would always keep a stock

Make another Cup for Dia 1/2 Jumper Dia + solder 1 to Reg arm necessary hole more than now in place

Also a smaller Dia. Cup + Thermo did -

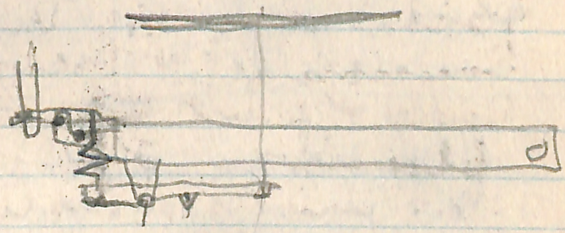
Wire 24/25-

Try Expmt of printing Varnished blanks with fine smooth surface - Then putting these in press between Reg moulds & print again

Also do same thing with paper soaked in Varnish & baked once 1/16 thick Crucible steel between Each & print to get blanks- Then use discard Rs moulds & present with Mercs

Can print 5 or 6 at once -

Whitney - When you send Real Smalley dealer sample record on mark it when you have every record rel'd so 1st dealer who sends us an order you can ship the same day this is Egg of Columbus for success here -



This acts opposite of present lever which when diamond goes down the Valley this goes up with this it goes down Retractile spring must lift the inertia Weight Completely Simpson Long art & make

Dec 26/25

What we need in Ford starting battery is a very porous Nickel hydroxide to permit gases to get out + Electrolyte to get in - but it should not have pores as fine as Silica Gel
Start Expanding dont blast but Make Nickel precipitate finely + Vacuum dry Coat to deep Cryptolytic then percolate the Nat Hydroxide out

Also prepare something with Ni which is inert like Nickel in NaOH that can be dissolved out in some special solvent

Why not change the Rack and screw or reed so that the diamond point pen always stays in the Middle. Improved layout

Proposed prices 450 Thread

12"	both sides	10 Tunes	$3.00
"	Single	5 "	1.65
10"	Record both sides	5 tunes	150
"	One side	2½ tunes	125
	Dance Record Old style		1 85 Cents
			1 50

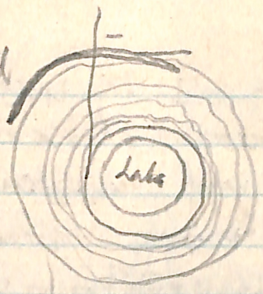
Get exact time of playing

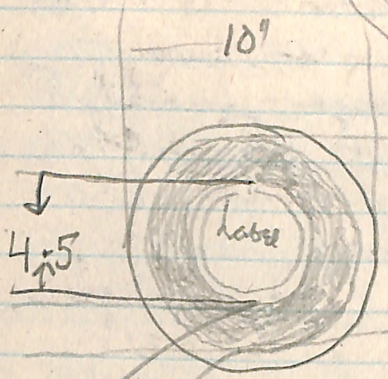
Try Case record + Soneya on 8 1 Spring short Horn Say London Up See if shoulder Column will give better tracking

28.850 grams

1 09

Reg Record
across label





2½" music is standard

Outer Edge of music
Circumference 9.25 inches
Inner Edge of music Circumfer
4.5 inch a wave at inner
End approx ½ as long as
outer end.

With 4 oz brass alone
+ large diameter —
Spring made of — wire
with — turns, Reg
horn setting + level
not quite horizontal
4 oz but 4 oz it was
not loud enough

put on lead weights
4.75 oz it was

Reg loudness + nearly
scrapes off Soldier
Chorus, + OK on
Sonya —

I now reduce weight
to 4 250 gr —

Lead wts now weigh
both 18,500 gms

about 1/2 of this weight goes on back support

leaving about 9 grms on diamond

Extra – E

I note that pressure measuring apparatus is Rotten – a joke

Noticed that lever with steel tube connection had to be shaved down when Spring was Removed (and put back by twisting Needle in Lever bearing (1c) rotating it. Then weight on lever dropped This is important point

With removal of spring Weight was not lightened by burn measuring instrument

4 1/4 oz so all oz should use on diamond

Cam fund out by what test records 4 1/2 oz will break + not blast –

In reg horn set New Records has a Margin of 4 paper 10/000 Ends on Golden Chrom which Callipers 204 – 217 280 213 –

Margin of 40 difference
50 Caused tail of lever
to strike record -
We can cut corner off
tail + shorten link
1/32 + get possibly
60 difference - 190 down
255 highest
but probably 40
difference would do
all except now +
then rarely

With Ear in line with
tunnel hear on old
beat Repeater 78 inches
Largest parts of
End of stroke -
With Sunday beat
No 2 hear 63 inches
At square is 39
allow 60 for old

Repeater - Here is our Req
setting of Req plan
No position seems
louder - Weight
about 4.75 -
Bad uncertain
measure -

Put on another made
up lever see if our Levers
006 deeper

Changed for another
lever - didn't make it
as good as No 1 old
Tried another lever
10 degrees angle lever
never tried before

Put in New diamond
No change in Velo
but it stands
5 Cardboard under
Soldiers Chances
of .050 - + lever dead
about or fail loud
Record - Thus is
ample Margin
for wear in these
levers

Using Worn at
right angles to worn
+ back to position
Old No 1 Camfollow
the time Was Cant

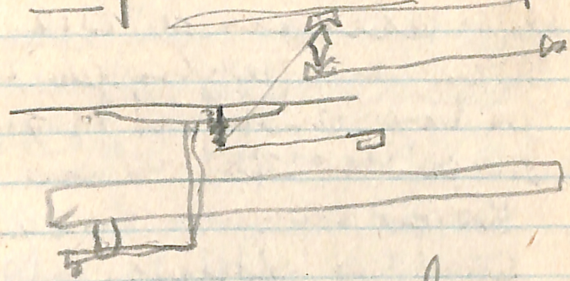
fellows only loud
parts wrakey -

006 diaphr in No 2
Reader is not as
loud as a tight 010
We now try a 016
made Specially by
Luhr - no better but by
stiffening retractor Spring its Speed up on #2

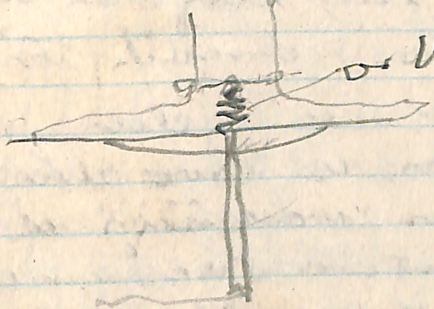
Get general Sample of
Bus Hard Rubber
powders we buy
& test for Sulphuretted
Asphalts, Schwenke

We put in a 012
Dia as perhaps 016
is too stiff if it stiffens
as to the Cubz as
Theo says — Keep
Spring Same
016 with Zomy thing the
same is slightly better
than 012 = There is
want of long elasticity
in up movement of
diaphm = nothing but
stored up elasticity
when it returns upward
there is not enough
elastic power to pull.
diamond down in
Valley — Needs a
Counter spring to
give more elasticity
with long diaphm
The Diaph is too short

We a very narrow range



Theo shows principle



Fathers

Harder to make a
part of 72 triple
Crepeldegen to get
Mon adet —

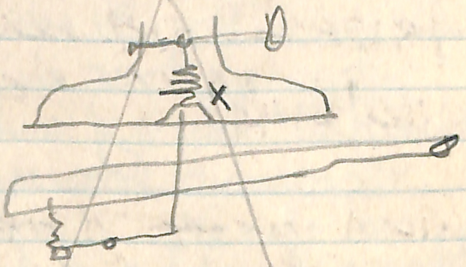
Lost wax

Latt see if our sulfate or Red Ox is made into Permanganate so changes Color by Hypo

Sunday 1/10/1-26

Simpson layout a another retractile spring on tension system

The one we have put tension on decom down Lisant another to pull it up-



Cut open a place to get at spring X or Cut tube in 2 + put flanges on 2

We put the back spring in tube by splicing it Spring wire 10/1000 Brand - Ora Bf. spring wound on 95/1000 Arbor - Has about 1 oz pull back-

Oled link - 831/1000 from support to support

Last piece Nickel plated Reg Reproducer - 18/50 — 50% off to fatten 40% off to dealer

Sold the most expensive is $22.50 - Some discount

New Long playing Reader should be together with all adjustment $20 set

Compound lever in No 3
is better than old reg lever
reversed & put in No 4
I have another straight
not 10% angle Compound
lever under substitute

Weight of old reversed
lever — 700 Milg

Weight of new Compound
Lever — 530 Milg

Weight of 800/1000 steel Licha
link 220 Milg

Weight of diamond.
retraction spring - 50 Milg

Weight of old chain
3 links 130

Needle bearing 027

Weight back diaphm
spring 40 milgms

Weight of diaphm
Reg. 1.300 milgms

Latest prices = London Rapids
Ni— $20 /
50 Cent Record 6 mm 8.3 per Mer
75 " Victor 6 " 12.5 "
$1.00, Edison Reg 10:9 mm 11 "

10" 450 Edison 25 min 1c
150 price — 6c per

ditto 1/2 100. 8.3

12" 450 Edison 2 5.45 Mins 6c Mins
1/2 or 1 face 1 75 - 8 Cents

No 4 attempt at Drop was
No - weak & blasts on
heavy rates. bad way
record, used Mica shamps
007 - also aluminum
007 - Washers improved
A - I used Reg Shells
diaphm with aluminum
dome + also batten
to support bolt.
By making spiral 010
wire + 3 turns to weaken
pull back + be far less
than we had. Then
Repeat scrapes way
3/4 + dont blast or falls
+ nearly as loud as
#3 our best.

Lantern Slide Advtg Made

Material Cost $ 15 41
Labor 6 93
$ 22 34

No gen'l ex -
Cost Motor
or Packing.

Tools Cost $ 4.988.

Reg with Fish line
Retractor spring
weight 3 ½ oz
dont blast our 5 shows
but 30% weaker than
of Wesson 2 ½ oz arm
put on -

Dales to Jabbar

1922	54006
1923	74785
1924	40774
1925	21667

The 4 Repeaters Reg with Wallis Wilkes delgadobe Arrow ~~[illegible]~~ & Fish Cord Spring diamond lever Set Factor Sheet ~~Keep~~ Steel Connects on Weight -

Weight on Diamond
No 1 4 3/4 oz
2 4 7/8 "
3 4 3/4
4 4.5 1/8
Standard 5 oz

No 4 Little weak

All others same Volumes No Canary or Blast on Soldier Chimes -

Dont clean up Arrow Case note - reflected Light shows 2 & 3 spots ~~[illegible]~~ places only 2 spots -
Theck except #4 ok #4 not loud enough

Springs Hammer Levers were not tempered

Redpath Estimates cost of 1850 Words attached Complete Steel Card non Cracks

Material 15 cents
Labor 79 "
94

Cost Long Reproduced

Material 105
Labor 129
$2.34 cents

Mrs approximately 8 cents more than old Regular Reproduction These figures are only Labor + Material +

Condensate Resin dissolved ~~Alcohol~~ in 10% Na OH Sol - precipitated with dried Dissolved Alcohol & 6/4 + Ether Part

Asclepias Subulata a Milkweed Rubber producer being Tried in California

War Dept has at Panama a Rubber plant Expert Elaborate steps for seed

Urine

: Aug 7/25

Albumen .09%
Glucose 04%

8'0 Feby 2/26

Albumen .083
glucose .480 : :

Ran 7 3/5 on Chadwick Sediment

Found out if Ford is always sent all our Monthly Records if not send them Reg

Wrote Payne when he renews coil in cell it should be discharged way down & filled. Quick or Iron will probably oxydize some, this may account for drop on renewal. Then it will require some time before cell is built up again —

The test Reading Coil is Reg wrong. & Pour out

Then Either put Removable w/ fellow hole ~~with rubber~~ Cork & see if lamp rises as there may be a lot of ~~it~~ that is discounded & never discharged then will oxidize & heat up.

Go into diff schemes for making better contact & have many schemes given Payne —

Tone test Fraser & Meyers, 2 Reading both wrong & not wound up quick & other Cut off dropped too soon

Hereafter all Done Cast people must by
taught like travelers are taught -

See Walsh about

Negro Experimenter
Hyperplasia Carcinoma

Try Export Dance Report
Loading with Lead Center
Arm.

Also Opposite Lighter
up lever & weight

Also air cylinder
to make more dead
beat

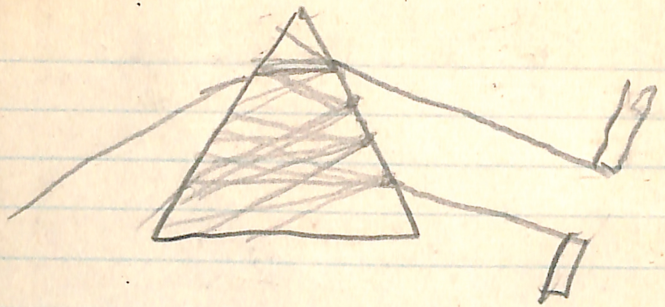
Also - different air
Chambers -

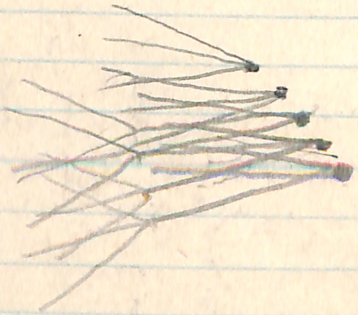
Also find if blank
more at Label than
Outer rims. Seem as
there heavy stamp at
at outer rim

As longer the Arm smaller the
amplitude on account of
larger air area Try smaller
Diaphram with the Extra
holder I had made

April 29 - My Urine
Glucose .350%
Albumen .070

On Feby 2nd
glucose .480%
Albumen .080





1950.0

20
30
60

1950
14
7800
1950
1950
2730
1950
19.5
5
53

27300 Feet
19500 Feet
7824
0
3120
0
1560
0
780
0
390
0
195
0
97.5
5
48.75
4
24.375
4
12.187
4
6.093
4
3.046
4
1.523
4
0.761
4
0.380
4
0.190
4
0.095
4
0.047
4
0.023
4
0.011
4
0.005
4
0.002
4
0.001
4
0.000
4

1 ft 1 inch 144 inches

62 | 1728 (23
124

48

23 | 144 (6.2
138
---
6 0

6 lbs

456
4

27.36 grms

1% 27 grms per foot

5280
5200

80

10560
26400
---
27 48.60 00 2
27

60
54

60
54

60

400.00
300

1000
1000

0

30000 ft inch unit

2.740.000
27

1800
1800

0

19180000
189

270
270

0

7103400
213091

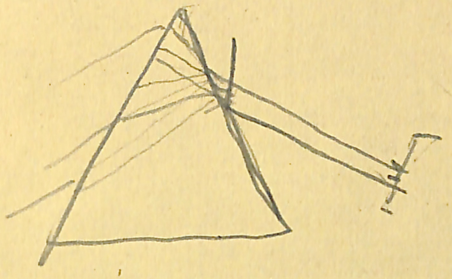
7100000 grms

710000
4500

2600
2250

3500
3150

350



20 lbs –

100 lbs load Tuesday

3 Tuesday 300 lbs

100 – 600 / 2000 (3

9

Exchange 66 at 25 cents

4 / 66

16.50 number – Sell new ts

33 pairs

33

40

13.2

18 – wh

3 Re

3 – Ru

4

28

042

140

280

42

2 / 114

57

3.5

22,000

117

53

32.2

32.2

1.5

33.7

40

33.

9

2 3

2 3 4

1950

60

80 –

Sulphides

Bi Sulfide
Cd —
Ca "
Co
Mo " Di sulfide only
Ni " mono & Di
Zn "

Possibly loading
Vulcanized Asphalt

9 abstracted from Vol 1
Carnelly M.P. - Source
high M Chemicals
○ mark not Copied

Hexametaphosphate of
Mg soft a tenacious

Ammonium Magnesium
Phosphate a glass
brittle,

Tetrametaphosphate Sodium
precip gumming Even when
diluted 100 times When
precip by alcohol ropy
like Rubber ~~dries~~ dries
to transparent ~~ferrous~~ ferrous
mass.

~~Phosphoric~~ Sycocerylic Alcohol
after slowly heat solidifies
to transparent glass

Fused Phos Lime glass

See if hard BS stands hot Electrolyte -

Chloramine Naphthalamine makes Resin

~~Tartar~~ Chloramine Santonin Converts to a resin

Sassafras oil H_2SO_4 Converts to a Resin

Tungstate of Ammonia Resinous

Action Chlorine on Gelatin filaments elastic

Dragons blood in Electrolyte

Soft Mexican
get other Asphalts or rerun
We had a lot of all kinds
in #4 may be in slop
run
to try Sulphur to stop
softening + test in KOH Electrolyte
with + without Sulphur
Loading if necessary can
be done with CaHydrox +
May hydrate + put in when
melted so it will combine
with any asphaltic acid

Pasto-resin - threads

phosphate of Titanium

Meerschaum · Carbonyl process
in hydraulic

Rubber Mfg Papers - ground Rubber in Benzol, Mix in Magnesia so Magnesia clumps Have SO_2 in the Benzol, Then after pressed + dry add Benzol or HS - Reading

Simpson after making a Diamond right shape belt tried design diamond lever with right shape with present angle of the big wood model but with increased leverage to make up for the loss BUT ½ the length but same leverage to get rid of weight

See if can make hard rubber clamps with diamond tool used on turning [illegible]

The shavings will if they can be made long can be beaten in the pulp beater to shorten

Can probably make a softer rubber possibly leave out filler & rubber Set adj. This should make a very tough fine fibre

Get some Nickel fine wire oxidize it & see if it flakes. Bend it see how far until and Cracking Flake See if it is magnetic

Try some percolation in the Electrolyte with 50 deg. on hot plate for several days also Hard rubber turnings. also Oxydized 180 mesh Ni wire oxdzd deep

See if fine asphalts can be turned in shavings. if so put in Electrolyte + LiOH if saponified melt some in KOH, + Chem makes turnings

Dip finely shredded asbestos in an asphalt Cameron Elec Solution + Evap solution see if Choke to fabric + stands KOH Lisk

Take some Asbestos paper dip in the Cameron + Evaporate + try KOH at 1st hot, get something not saponable + slow Evaporating solvent see how long Asbestos will look natural going to pieces

Theodore

Moore

Let us try a new experiment

Mould blanks as they are high in the Centre

Then air will flow outward as pressure increases & we will have no poor Varnish points & also the act of pressing will remove the blank & slop dashing

In the case of one face records I false plate can

Make 1

1= The Cadmium - Fe Cd peptad together

2 Impalpable Ni 30% mixed with our red oxide 2 pkts these little agate Balls

3 Impalpable Ni mixed with our Reg storage battery 10% 2 pkts
~~20%~~ 15% 2 pkts 20% 2 pkts
25% 2 pkts 30% 40% 50%

4 30% impalpable Ni mixed with low ignited Fe by NaOH precipitation of Fe_2SO_4 - not reduced by H.

5 = Take some of the old pieces which gave only 25 & 50 Mil amps & if Enough to make a packet, mix with 25% Impalpable Ni + Return Bowl

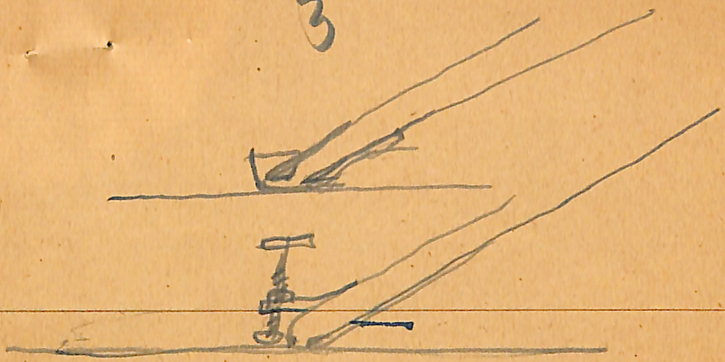
Hunter to make couple of pounds of Unpalatable Ni like last sample from ignition of oxalate & reduced 300° F or just same as sample sent me - get his sample number.

Test Loring Samples with my W&Bde amplifier - up class

Tell Joe when he gets the new Condensite diaphm with Cork on to put 3/ in of same kind

Simpson gave drawing for Joe showing back opening in Baum R molded in pulling is showing Wa Leaphy

Make 2.



For ramnish muffle —

Some Nickel pans for igniting in big muffle at low temperature

1½ wide 6 inches long 1/32 Block with a rake or hoe long handle & Thermometer

Ask Ott look up an Electrical oven for temp 300° F to 2000° F with Thermometer

Try some N.O see if conducts Ox ni hydrox fume-

Maximum

10" Reg 5 minutes on Side

12 " 7 " "

Multiply by 3 for long cooking

10" 15 Minutes on side

12" 21 " "

These are almost limits should be cut off on many meshes as now set —

10" 4½ min on side

12" 7 " "

Multiply by 3 for long 10 + 12"

fuse zone ammon Chromate of
Magnesium
ammon Phosphate MgO
Chromate Mg
Phosphate Mg

Precip $MgSO_4$ +
$MnSO_4$ 80% MgO left +
20% Mn_3O_4 after forming
plates drying then up to
Red heat Mn_3O_4 as binder
precip seperate & mix

Or use 100 mesh +
mix with $Ni(OH)_2$ hydrox
water mix with Rubber
paste dry on sheet
+ bring up to Red or
Yellow.